Safe Transportation System

Tangible Result Driver – Kevin Keith, Chief Engineer

MoDOT works closely with other safety advocates to make our roads and work zones safer. The department supports educational programs which encourage safe driving practices and enforcement efforts which increase adherence to traffic laws. MoDOT will not compromise safety because it believes in the well-being of its employees and customers.

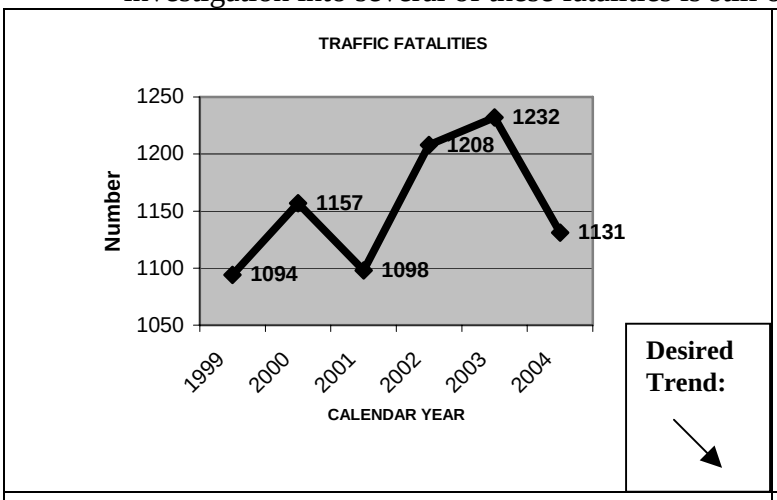
Safe Transportation System

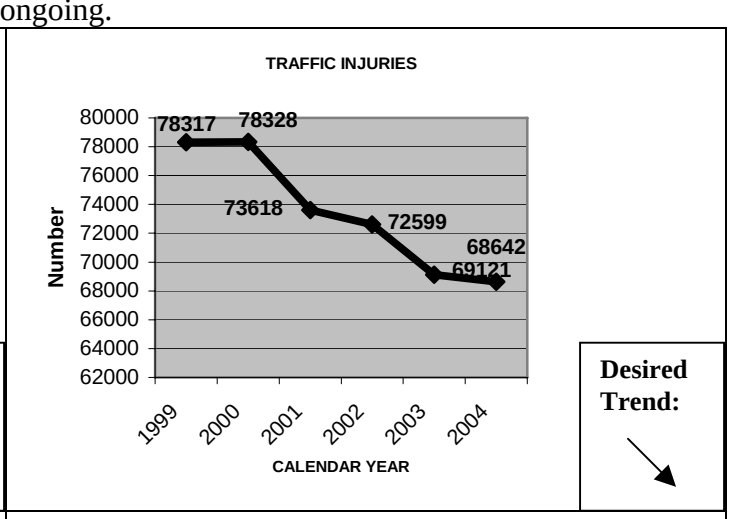
Number of fatalities and injuries year to date

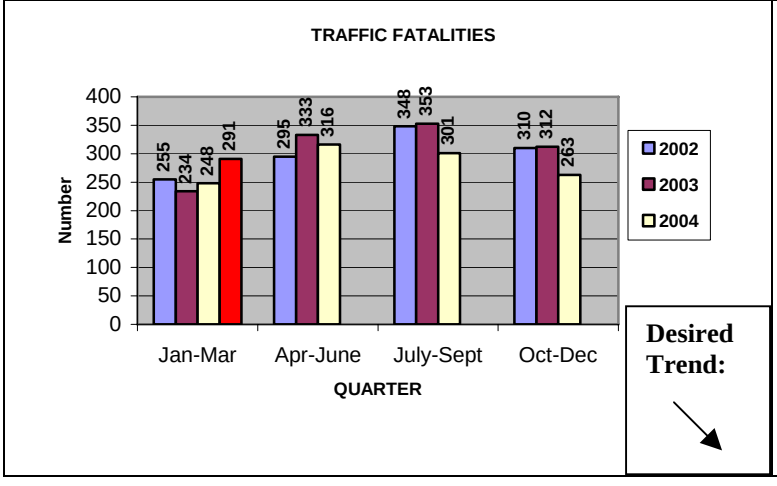
Results Driver: Kevin Keith, Chief Engineer
Measurement Driver: Scott Turner, Highway Safety Program Administrator

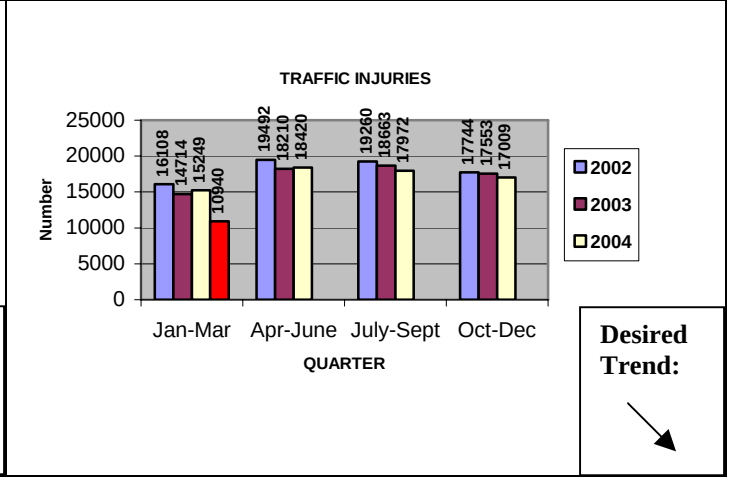
Purpose of the Measure:
This measure tracks annual trends in fatalities and injuries resulting from motor vehicle crashes in Missouri. It will help drive the Missouri Highway Safety Plan, which supports the Blueprint for Roadway Safety, toward efforts that reduce the number of fatalities and injuries on all Missouri roads.

Measurement and Data Collection:
Crash data is collected at the Missouri State Highway Patrol and is entered into a traffic accident record system. The record system automatically updates MoDOT's traffic management system. Reports on crash data are available to law enforcement and traffic safety advocates for crash analysis through both databases. Fatality data is not final until each fatal crash has been validated and the investigation is closed. There are two fatality crashes still under investigation for 2004. A similar situation exists for the 2005 quarterly data; investigation into several of these fatalities is still ongoing.









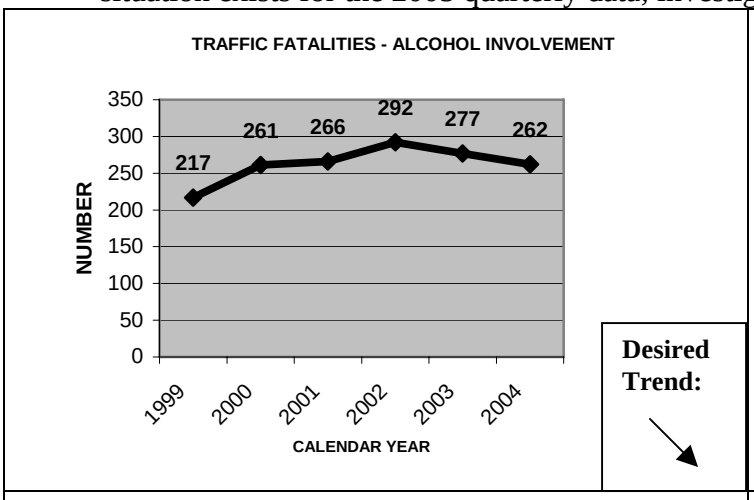
Safe Transportation System

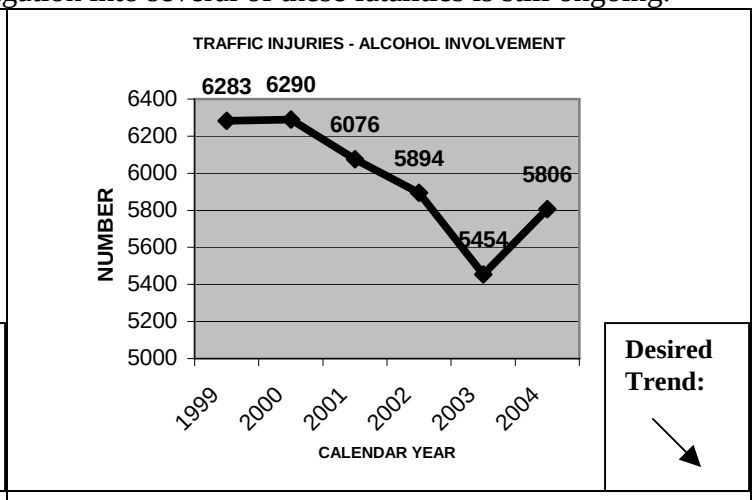
Number of impaired driver-related fatalities and injuries year to date

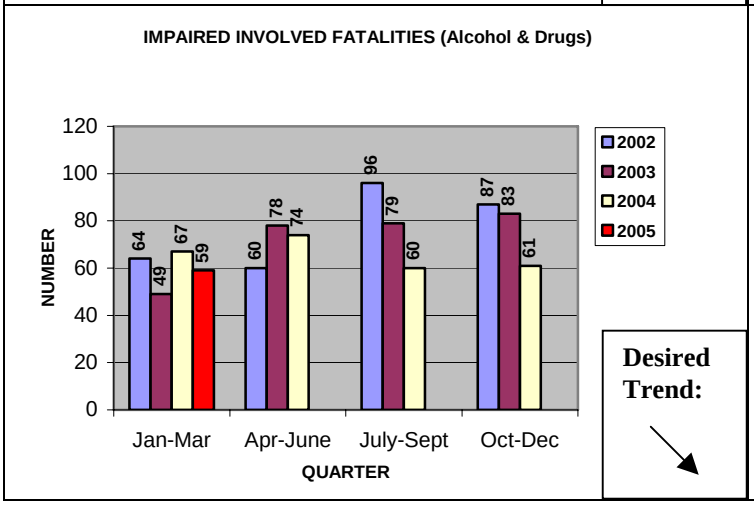
Results Driver: Kevin Keith, Chief Engineer
Measurement Driver: Scott Turner, Highway Safety Program Administrator

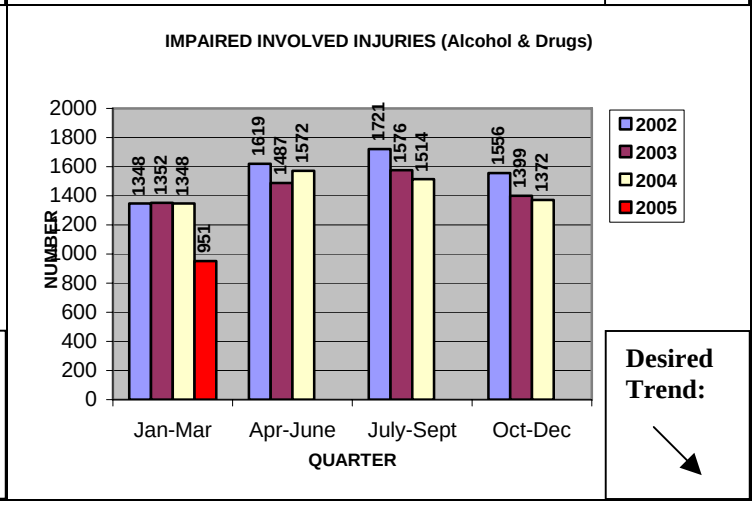
Purpose of the Measure:
This measure tracks annual trends in fatalities and injuries resulting from motor vehicle crashes involving drivers who are impaired by alcohol and/or drugs. It will help drive the Missouri Highway Safety Plan, which supports the Blueprint for Roadway Safety, toward efforts that reduce the number of fatalities and injuries on Missouri's roadways.

Measurement and Data Collection:
Crash data is collected at the Missouri State Highway Patrol and is entered into a traffic accident record system. The record system automatically updates MoDOT's traffic management system. Reports on crash data are available to law enforcement and traffic safety advocates for crash analysis through both databases. Fatality data is not final until each fatal crash has been validated and the investigation is closed. There are two fatality crashes still under investigation for 2004. A similar situation exists for the 2005 quarterly data; investigation into several of these fatalities is still ongoing.









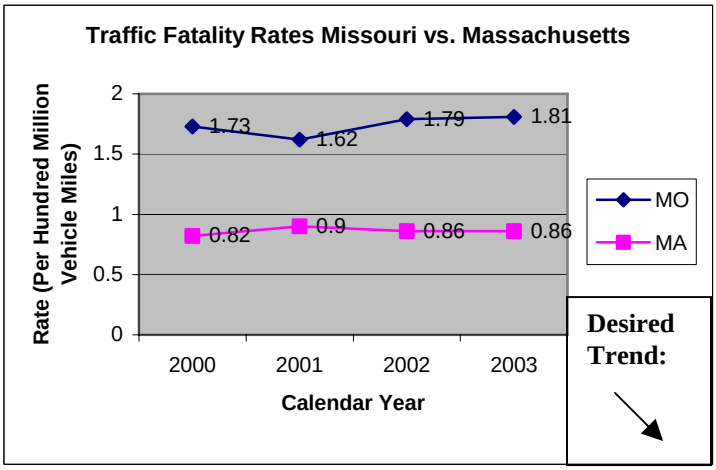
Safe Transportation System

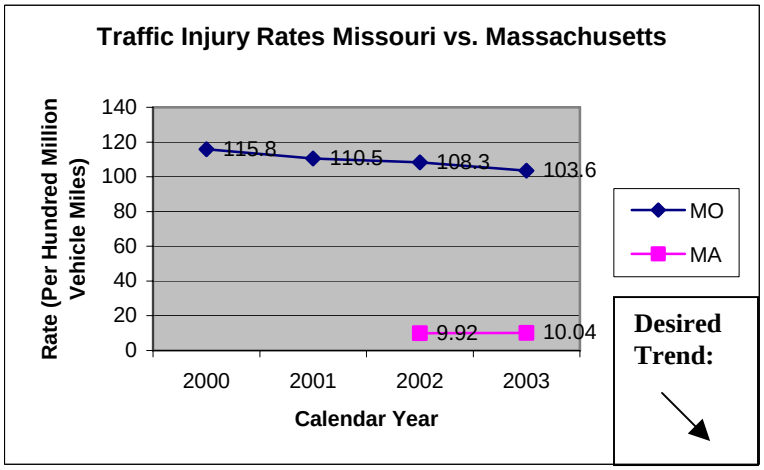
Rate of annual fatalities and injuries

Results Driver: Kevin Keith, Chief Engineer
Measurement Driver: Scott Turner, Highway Safety Program Administrator

Purpose of the Measure:
This measure tracks annual rates per Hundred Million Vehicle Miles for fatalities and injuries resulting from motor vehicle crashes in Missouri. As a comparison for fatalities and injuries, Missouri has been compared to Massachusetts, as they have the best rate in the United States. It will help drive the Missouri Highway Safety Plan, which supports the Blueprint for Roadway Safety, toward efforts that reduce the number of fatalities and injuries on Missouri's roadways.

Measurement and Data Collection:
Crash data is collected at the Missouri State Highway Patrol and is entered into a traffic accident record system. The record system automatically updates MoDOT's traffic management system. Reports on crash data are available to law enforcement and traffic safety advocates for crash analysis through both databases. Rates cannot be calculated until the HMVM number is calculated. This number is not available until approximately July of the following calendar year.





*It should be noted that rates for fatalities and injuries are "normalized" and the population of both Missouri and Massachusetts are similar (5.6 million to 6.4 million respectively).

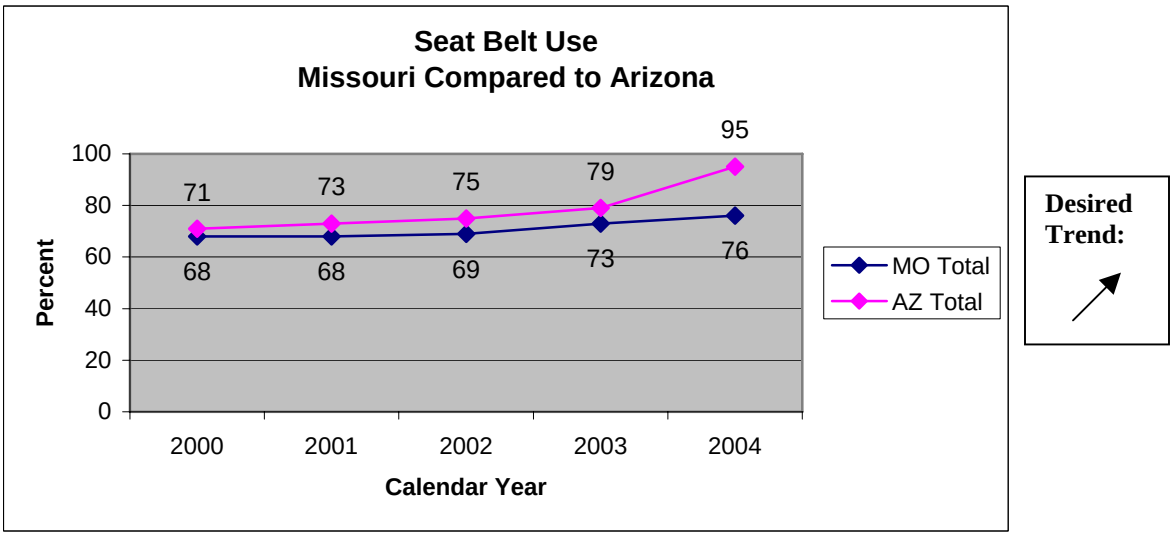
Safe Transportation System

Percent of seatbelt/passenger vehicle restraint use

Results Driver: Kevin Keith, Chief Engineer
Measurement Driver: Scott Turner, Highway Safety Program Administrator

Purpose of the Measure:
This measure tracks annual trends in seatbelt usage by persons in passenger vehicles. As a comparison for seatbelt usage, Missouri has been compared to Arizona who has the highest seat belt use in the United States. This measure will help drive the Missouri Highway Safety Plan, which supports the Blueprint for Roadway Safety, toward efforts that reduce the number of fatalities and injuries on all Missouri roads.

Measurement and Data Collection:
An annual statewide survey is conducted each June at 480 pre-selected locations in 20 counties. The data collected at these sites is calculated into a rate by use of a formula approved by the National Highway Traffic Safety Administration. The seatbelt usage survey enables data collection from locations representative of 85 percent of the state's population. The data collection plan is the same each year for consistency and compliance with national transportation guidelines.



*It is important to note that when comparing Missouri to Arizona on belt usage all the states, unless grandfathered in, are following the set methodology mandated by NHTSA in collecting safety belt survey data.

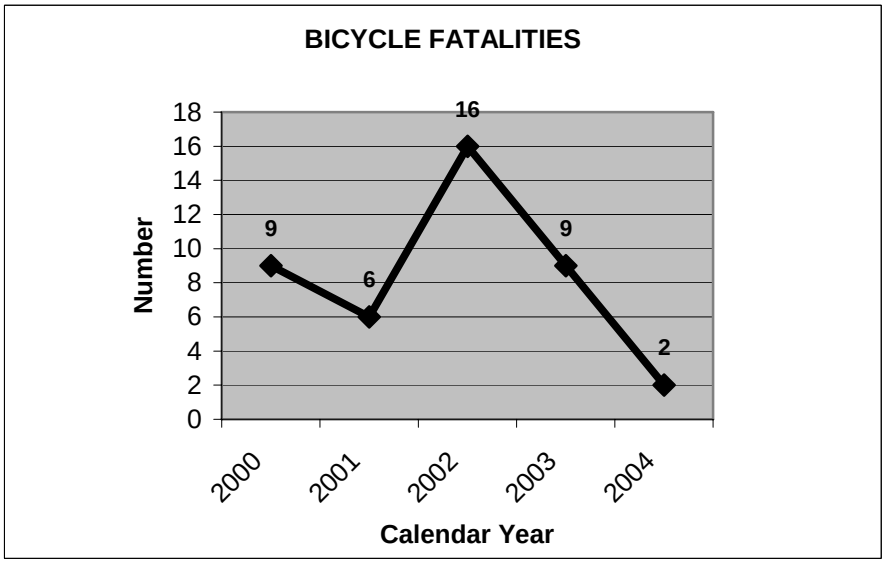
Safe Transportation System

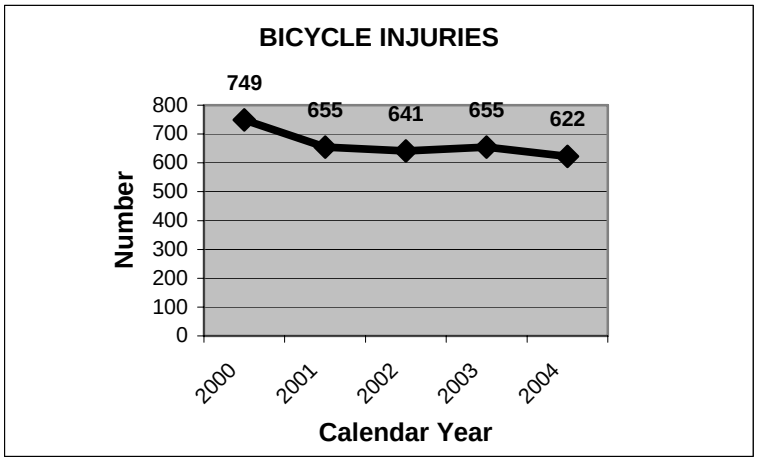
Number of bicycle and pedestrian fatalities and injuries

Results Driver: Kevin Keith, Chief Engineer
Measurement Driver: Scott Turner, Highway Safety Program Administrator

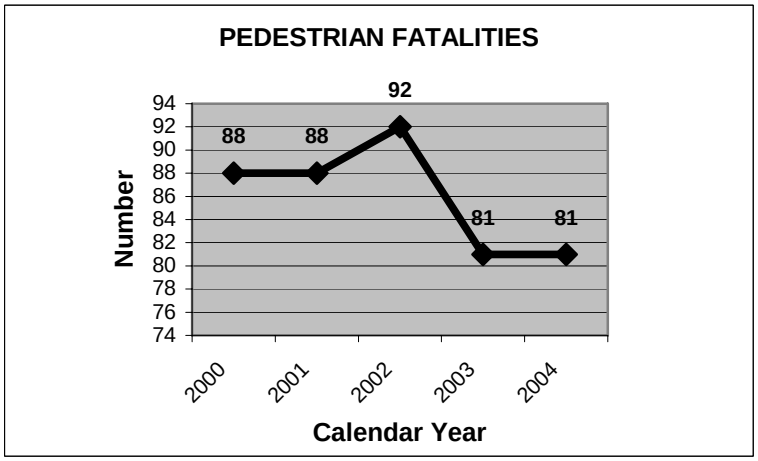
Purpose of the Measure:
This measure tracks annual trends in fatalities and injuries resulting from motor vehicle crashes with bicycles and pedestrians in Missouri. It will help drive the Missouri Highway Safety Plan, which supports the Blueprint for Roadway Safety, toward efforts that reduce the number of fatalities and injuries on all Missouri roads.

Measurement and Data Collection:
Crash data is collected at the Missouri State Highway Patrol and is entered into a traffic accident record system. The record system automatically updates MoDOT's traffic management system. Final crash data for each year is not available until approximately June of the following year.

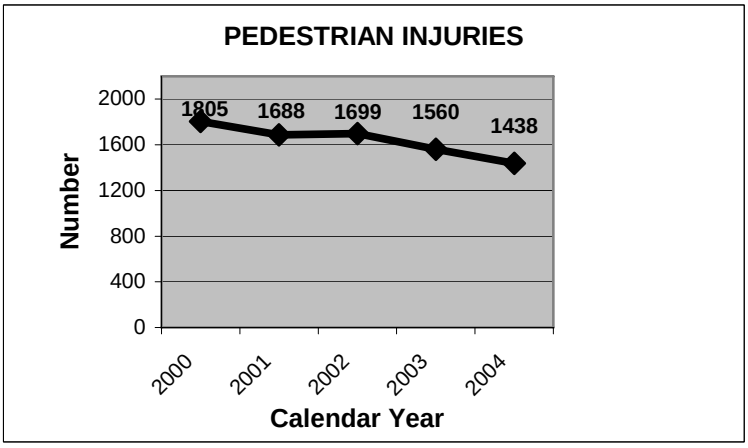




Desired Trend: ↘



Desired Trend: ↘



Desired Trend: ↘

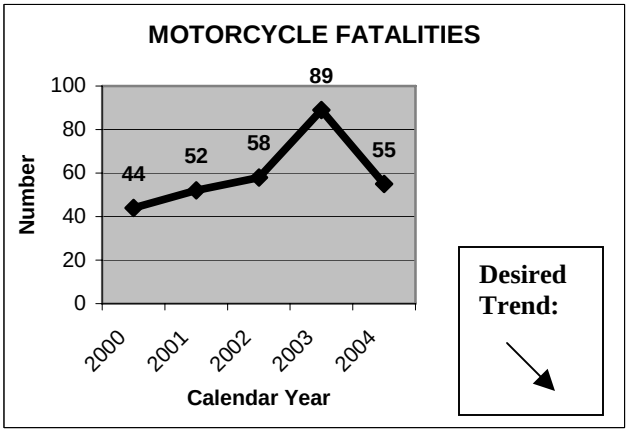
Safe Transportation System

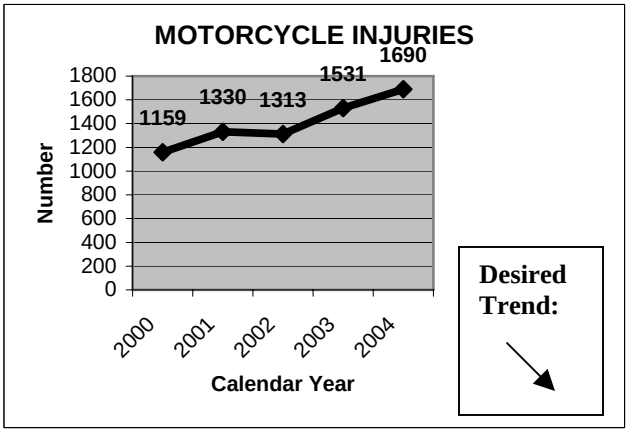
Number of motorcycle fatalities and injuries

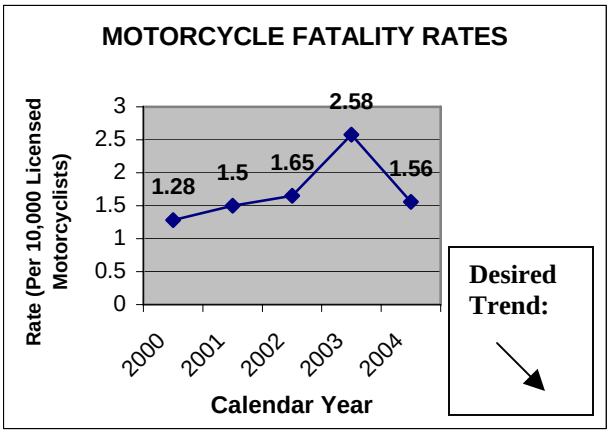
Results Driver: Kevin Keith, Chief Engineer
Measurement Driver: Scott Turner, Highway Safety Program Administrator

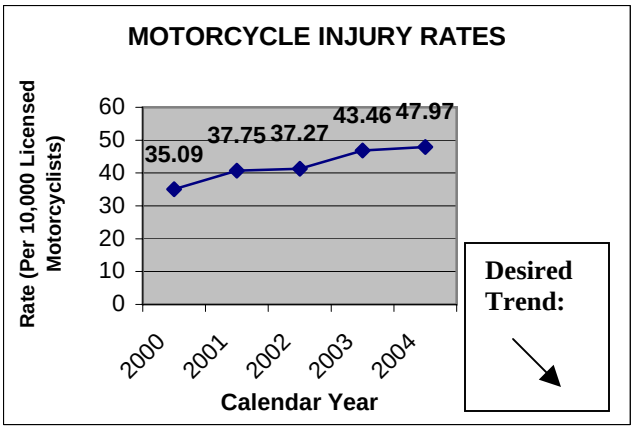
Purpose of the Measure:
This measure tracks annual trends in fatalities and injuries resulting from motorcycle crashes in Missouri.

Measurement and Data Collection:
Crash data is collected at the Missouri State Highway Patrol and is entered into a traffic accident record system. The record system automatically updates MoDOT's traffic management system. Reports on crash data are available to law enforcement and traffic safety advocates for crash analysis through both databases. Fatality data is not final until each fatal crash has been validated and the investigation is closed. There are two fatality crashes still under investigation for 2004.









Safe Transportation System

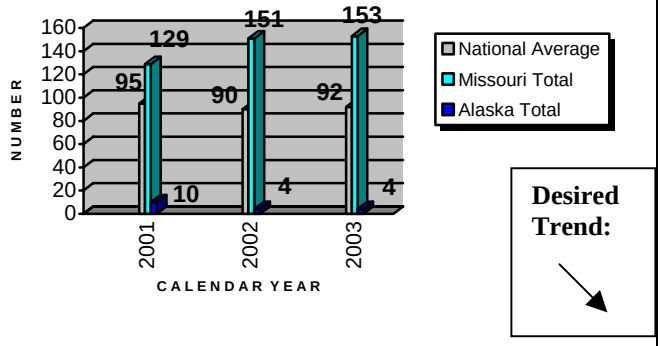
Rate of commercial vehicle fatalities and injuries

Results Driver: Kevin Keith, Chief Engineer
Measurement Driver: Jan Skouby, Motor Carrier Services Director

Purpose of the Measure:
This measure tracks annual rates of fatalities and injuries in Missouri that involve commercial motor vehicles. The statistics include the number of large trucks involved in fatality and injury crashes. The measure assists Motor Carrier Services in targeting educational and enforcement opportunities in an effort to decrease commercial vehicle related fatalities and injuries.

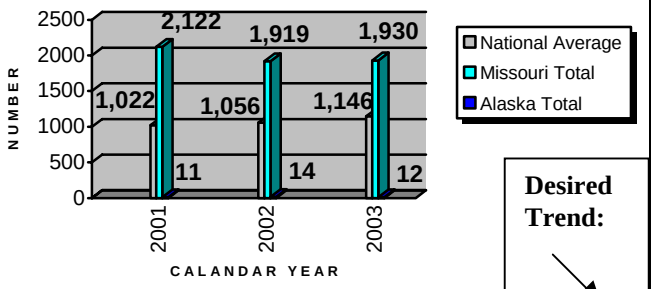
Measurement and Data Collection:
Crash statistics are derived from the Federal Motor Carrier Safety Administration's Analysis & Information. The data reflects the number of crashes, not the number of fatalities or injuries. Missouri's crash rates are compared to those of Alaska, the state with the fewest commercial motor vehicles fatal and injury crashes.

Large Trucks Involved in Fatality Crashes In Missouri, Alaska and the National Average



Desired Trend: ↘

Large Trucks Involved in Injury Crashes in Missouri, Alaska and the National Average



Desired Trend: ↘

*It is important to note that the number of Interstate Registered Commercial Motor Vehicles is significantly higher in Missouri as compared to Alaska (16,550 and 816 respectively).

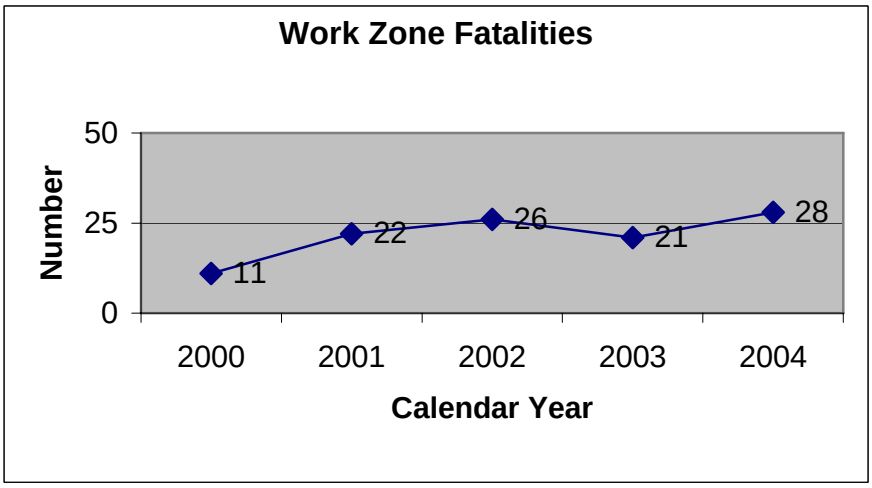
Safe Transportation System

Number of fatalities and injuries in work zones

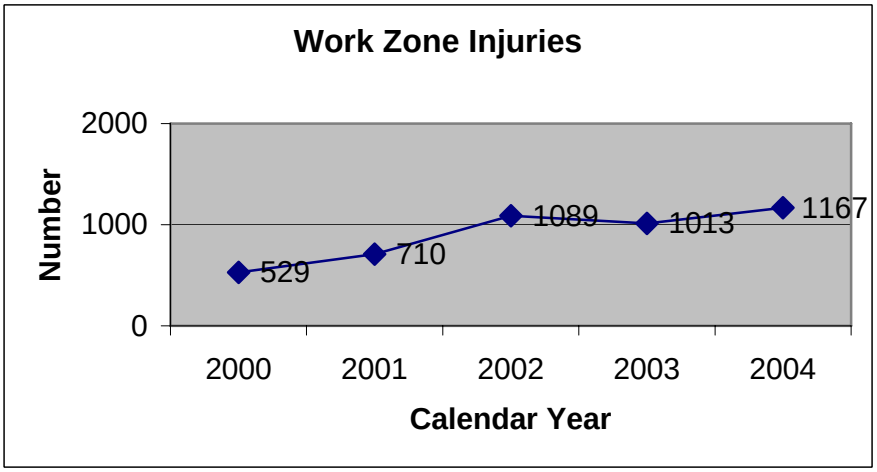
Results Driver: Kevin Keith, Chief Engineer
Measurement Driver: Dan Bruno, Traffic Studies and Corrections Engineer

Purpose of the Measure:
This measure tracks motorist and worker injuries and fatalities in and around work zones on the state highway system.

Measurement and Data Collection:
Data is gathered through query and analysis of reported crashes via the standardized Missouri vehicle accident reporting form. All law enforcement agencies are required to submit completed accident report forms to the Highway Patrol for inclusion in the statewide accident database, STARS. This data is then analyzed on an annual basis and published in the annual Missouri Traffic Safety Compendium by the Highway Patrol.



Desired Trend: ↘



Desired Trend: ↘

Safe Transportation System

Number of highway-rail crossing fatalities

Results Driver: Kevin Keith, Chief Engineer
Measurement Driver: Rod Massman, Administrator of Railroads

Purpose of the Measure:
This measure tracks annual trends in fatalities resulting from train-vehicle crashes at railroad crossings in Missouri. It will help drive the Missouri Highway Safety Plan, which supports the Blueprint for Roadway Safety, toward efforts that reduce the number of fatalities and injuries at Missouri's highway-rail crossings.

Measurement and Data Collection:
Crash data is collected by the Multimodal Operations Division, Railroad Section and is entered into a railroad safety information system (RSIS). The record system is used to update MoDOT's traffic management system. Final crash data for each year is tabulated on a fiscal year basis. This figure does not include fatalities from those trespassing on railroad property at areas other than at railroad crossings, which are tabulated separately.